Nebraska Strategic Planning Proposal
Endorsed by Nebraska GIS Steering Committee on 4-3-2007

Motion: The Chair of the Nebraska GIS Steering Committee is authorized to appoint a Strategic Planning Advisory Committee to help guide the Steering Committee through a process of developing and adopting a collaborative, comprehensive Strategic Plan for the development and maintenance of geospatial data, services, and coordination mechanism related to the geographic area of Nebraska by soliciting input from a broad cross-section (state, local, federal agencies, tribal, and private sector) of geospatial users and following the general guidelines outlined below.

Proposed Planning Horizon: (3-5 years) (2011 –2013) (2-½ state budget cycles)

Proposed Planning Timeline:
Strategic Plan (where do we want to go, what do we want to achieve) — early draft versions by fall 2008, final adoption by the end of 2008

Business Plan (how will we get it done) for specific objectives — Street Centerline/Address Database by end 2009; Enterprise Data Exchange Network by end of 2009, others as time, resources and priorities dictate.

Process:
- Strategic planning first, then business plan
- Planning Advisory Committee authorized to lead the process
- S.W.O.T.
- Solicit inputs from multiple sources (GIS Str. Cmte., user group community meetings, area or sector planning, individual input (survey via Ramona or Survey Monkey?)
- Develop drafts and then solicit feedback.
- Nebr. GIS Str. Cmte. final adoption authority

Suggested Representatives for Planning Advisory Committee to be Appointed by Chair:
Steve Henderson, Larry Zink, Mike Schonlau, Rex Gittins or Kim Menke., Jim Langtry, Lee Kohrs, Les Howard or Jim Merchant., Eric Herbert., John Miyoshi, John Erickson, Chris Chalmers, other interested parties

Resources:
> 2006 Nebraska GIS Strategic Plan
> Nebraska GIS / Geospatial Data Enterprise Coordination Proposals
> NSGIC State Coordination Model
> NSGIC/FGDC Fifty States Initiative White Paper
> FGDC Strategic Plan Template
> FGDC Strategic Planning Process Map
> FGDC Business Plan Template

Proposed Strategic Plan Categories:
> Area or Sector Needs and Plans
> Geospatial Databases
> Coordination Structures, Procedures, Policies and Resources
> Data Distribution and Enterprise Services

Proposed Area or Sector Plans and Needs to Explore
- Transportation
- Emergency Preparedness and Response/Public Safety
- Homeland Security/Bioterrorism
- Health
- Environmental / Natural Resources Management
- Governance
- Revenue
- Land Ownership
- Local Government
- Nebraska urban areas
- Public Power
- Economic Development
- Agriculture
- Federal, if unique from above?
- Potential, but not current users

Geospatial Databases
- Plans
- Needs
- Theme, scale/spatial accuracy, currency
- Stewardship responsibilities
- Some specific datasets for attention:
    - Street Centerline/Address
    - LIDAR
    - Orthoimagery
    - Property parcels

Coordination Structures, Procedures, Policies and Resources
- Local government coordination
- Federal agency participation
- Tribal participation
- State agency representation and participation
- Steering Committee changes and/or enhancement
- $$$ resources
- State Coordinator enhancement
- Authority
- Policy vs. Technical

Data Distribution and Enterprise Services
- Enterprise Internet Services
- Metadata documentation
- Data Sharing Agreements
- Clearinghouse
- Ramona, inventory of existing resources
- Standards

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Project Title: Nebraska Geospatial Data Sharing Web Services Network
Project Sponsor: Brenda Decker, CIO
Date: August 24, 2006

Major Participants: Nebr. Office of the CIO, Nebr. GIS Steering Committee, Nebr. Emergency Management Agency, Nebr. Dept. of Natural Resources, Nebr. Dept. of Environmental Quality, Nebr. Dept. of Roads, Nebr. Dept. of Agriculture, Nebr. Health and Human Services System, Nebr. Game and Parks Commission, UNL-CALMIT, Douglas County, City of Omaha, Sarpy County, City of Bellevue, City of Gretna, City of LaVista, City of Papillion, City of Springfield, Lancaster County, City of Lincoln

Project Leader: Steve Henderson, Information Technology Manager, Office of the CIO

Project Team:
NE CIO: Steve Henderson, Information Technology Manager, Office of the CIO
NE GIS Steering Committee/CIO: Larry Zink, GIS Coordinator
NE Dept. of Natural Resources: Steve Rathje, Senior Analyst
NE Dept. of Environmental Quality: Dennis Burling, Information Technology Manager
    Paul Yamamoto, Infrastructure Support Analyst Senior
NE Dept. of Roads: Jon Ogden, Business Technology Support Manager
    Steve Brown, 402-479- 3966, GIS Manager
NE Health and Human Services System: Chris Chalmers, GIS Coordinator
NE Emergency Management Agency: Sue Krogman, Information Tech. Administrator
NE Game and Parks Commission: Sudhir Ponnapan, GIS Specialist
NE Dept. of Agriculture: Tom Jensen, Division Administrator, Ag. Laboratories
    Craig Romary, Environmental Programs Specialist
UNL-Center for Advanced Land Mgmt. Info Tech.: Chad Boshart, Project Manager
Lincoln/Lancaster County: Jim Langtry, GIS Manager, County Engineer's Office
Omaha/Douglas County: Mike Schonlau, GIS Coordinator
Sarpy County: Eric Herbert, GIS Coordinator

Project Vision: The ability to quickly and reliably access and/or share up-to-date data between public agencies (state, local, regional, and federal) is critical in today's e-gov world. This is particularly true with the wide range of applications using GIS/geospatial technology, because so much of the power of GIS lies in its ability to integrate and analyze data from multiple sources - based on location or place.

The project participants envision the development of a Nebraska enterprise-level, geospatial data exchange network and related services. This data exchange network will enable agencies to access, in an automated on-demand mode, up-to-date data from multiple participating (state, local, regional, and federal) public agencies. Because some of the data of interest will be sensitive, security and permission protocols will be integrated into the overall network design. To encourage maximum participation and utility, this data exchange network will have both an open public access/view and a private-secure access/view component. When fully developed, this data exchange network will support a wide-range of GIS/geospatial applications that require regular, dependable access to up-to-date data from multiple sources and provide the technical

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support to maintain these services and assist public entities to access and build applications based on these enterprise services.

Project Overview: The development of an intergovernmental geospatial data exchange network will involve a complex matrix of issues (networking, data exchange standards, data transformation, data documentation, security, data sharing agreements, enterprise administration requirements, operations and maintenance requirements analysis, data viewing and query applications, online data services, etc.).

To address this complex matrix of issues, the overall project has been divided into a series of project phases. Each phase is designed to achieve concrete deliverables and will, in and of itself, provide specific advances in interagency data exchange capabilities. Each project phase is also designed to build on the previous phases and to adjust based on the lessons learned in the previous phase. For example, sensitive data will not be available through the data exchange network until the later phases of the project, after security and permission protocols have been developed and tested. As part of this learning and building process, it is expected that the design of the project phases will evolve over time.

The data to be shared will be located in one of two types of sites. First is at the agency responsible for the data and the second is on established enterprise data repository servers (how the data is replicated will be determined on a case by case basis).

The overall project will be modeled after a regional interstate EPA data sharing network project, of which NDEQ is a partner. The lessons being learned and some of the applications developed, as part of that interstate project, will influence the development of this Nebraska data exchange network.

Project Plan: Phase 1.
- Create data repository(ies)
- Acquire hardware and software
- Establish network for data exchange
- Define initial information to populate repository
- Phase I Deliverables:
  - Ability to share/access data between limited subset of participating agencies
  - An initial requirements analysis for operations and maintenance
  - A report detailing lessons learned and what needs to be addressed during the next project phase
  - A "Go – No-go" recommendation for next phase

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Phase II.
- Refinement of Phase I processes for moving data between participating agencies
- Initial development of standards (data exchange, network, documentation)
- Initial assessment of security needs
- Initial assessment of administrative model and needs
- Initiate data sharing agreements process
- Phase II Deliverables:
  - Enhanced automated data access and population of repositories with non-sensitive data
  - Refinement of requirements for operations and maintenance and acquisition of initial dedicated technical staff resources
  - A report detailing lessons learned and what needs to be addressed during the next project phase
  - A "Go – No-go" recommendation for next phase

Phase III.
- Finalize processes for moving data between participating agencies
- Finalize standards development
- Finalize security processes and protocols
- Finalize administrative model and needs
- Finalize data sharing agreement protocols
- Finalize requirements for operations and maintenance
- Initial development of open public viewing application
- Initiate sharing of web-mapping services and base geospatial information from the open public access/view component of the project with GOS and *The National Map.*
- Phase III Deliverables:
  - Enhanced automated data access and population of repositories with non-sensitive data
  - Refinement of requirements for operations and maintenance and acquisition of initial technical staff resources
  - A Go – No-go recommendation for next phase

Phase IV.
- Implement Phase III recommendations, standards, and protocols
- Begin the process of incorporating sensitive data
- Phase III Deliverables:
  - Implement secure sharing of sensitive data within the network
  - Implement and expand public view component
  - Expand sharing of web-mapping services and base geospatial information from the open public access/view component of the project with GOS and *The National Map.*

Local GIS Outreach Workshop for Northwestern Kansas
Colby, Kansas
March 29, 2006   9:00 a.m. to 4:00 p.m.

Objective: To provide a forum for local and state governments to learn about what each is doing in GIS, to share information about resources available and to explore opportunities to work together

9:00   **Welcome, Introductions & Overview of the day and purpose**
         Kathleen Harnish-Doucet, The Kansas Collaborative

9:15   **What is GIS?**   Dr. Tom Schafer, Fort Hays State University

       9:35   **GIS Conversation**   Joel Wright, The Kansas Collaborative
           What do you experience in terms of points where people get confused about this technology?
           What are some of the questions people ask you about this technology?

9:50   **Why GIS? A Local Perspective**
         The Business Case   Chris Schmeissner, Jefferson County GIS Coordinator

10:40 – 10:50   **Break**

10:50   **What is already going on in GIS?**

       10:50 – 11:00   Presentation of the survey data   Tom Schafer

       11:00 – 11:30   Small teams gather by county or city and capture the following:
           1) Where do you have some things going for you in terms of either working with digital data/GIS or preparing to do so?
           2) Where are you struggling in terms of your efforts to digitize data or to implement GIS? OR What questions do you have?
           3) Where could you use some help or assistance?
         NOTE: Please have one person capture your team's thinking on the form provided so that at the end of the workshop, we can type up all responses.

       11:30 – 12:00   Large group conversation

12:00   **Lunch Provided On-Site**

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1:00   **Resources available to you**

    1:00 – 1:50   A Discussion about local applications, resources and strategies
        Tyler Remmert, Prairie Land Electric COOP
        Some examples from Randy Sangster, Karrie Park and Bonnie Zweygardt
        Large group conversation

    1:50 – 2:20   Grants and Data Requirements
- Emergency Management   Lacey Dreyer, Homeland Security GIS
- E-911   Kathleen Harnish-Doucet

    2:20 – 2:30   Break

    2:20 – 2:40   State GIS Resources   Ken Nelson, Data Access and Support Center

    2:40 – 3:00   Coordination of Statewide Data Layers
                    Ingrid Landgraf, USGS Geospatial Liaison for Kansas

    3:00 – 3:20   Demonstration   Ken Nelson

3:20   **How can we continue to work together?**   Kathleen Harnish-Doucet & Joel Wright
- Questions you have now
- Other opportunities to work together
- What needs to happen next?
- Evaluation of this workshop

4:00   **Adjourn**